

COMMONLY USED ELECTROPHORESIS BUFFERS

Tris-Acetate (TAE)

Working solution

0.04 M Tris-acetate
 ✓ ~~0.001 M~~ EDTA Reduce to 0.2 mM EDTA for in-gel ligations.
~~0.001 M~~

Concentrated stock solution (50×)

Per liter:

Tris base	242 g	
glacial acetic acid	57.1 ml	
0.5 M EDTA (pH 8.0)	100 ml	Reduce to 20 ml for in-gel ligations.

Tris-Phosphate (TPE)

Working solution

0.08 M Tris-phosphate
 0.002 M EDTA

Concentrated stock solution (10×)

Per liter

Tris base	108 g
85% phosphoric acid (1.679 mg/ml)	15.1 ml
0.5 M EDTA (pH 8.0)	40 ml

Tris-Borate (TBE)

Working solution

0.089 M Tris-borate
 0.089 M boric acid
 0.002 M EDTA

Concentrated stock solution (5×)

Per liter:

Tris base	54 g
boric acid	27.5 g
0.5 M EDTA (pH 8.0)	20 ml